

**Sur University College Research Contribution,
Publications, Consultancy and Community Services
Annual Research Bulletin Volume 10**

ACADEMIC YEAR 2019/2020

Published by the Office of Academic and Research Affairs

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Words from the Editors

The current research bulletin highlights an overview of research activities completed during the Academic Year 2019/20. The 10th volume is the 3rd annual Research Bulletin that underscores the University College's commitment toward research, consultancy and community service. We thank all the faculty members and researchers for their extended commitment and hard work.

In line with the University College's Vision and Mission, the executive management makes sure to support and encourage faculty members to conduct high quality research. Over the years, local community needs have been addressed through research at the University College that reflects its commitment to meet local needs. Sur University College appreciates the significance of contemporary research and its impact on modern education. It is therefore that all faculty members make efforts in maximizing Research-Teaching Nexus. The editors, on behalf of the executive management, would like to thank all those who have completed research projects and successfully published the outcomes.

Editor
Dr. Ali Al Jarrah
The Dean

Associate Editor
Dr. Sitwat Usman Langrial
Assistant Dean for Academic & Research Affairs

S. No	Department	Author/s	Research Focus	Research Title	Journal / Conference/ Indexing Details	Research Type
1	Engineering	Dr. Ayman Fathy, Dr. Mohammed Abdelhady, Eng. Fatema Juma	Architecture	The Architectural Tools in Reducing Energy Consumption of Residential Buildings in Hot Countries	International Journal of Applied Engineering Research ISSN 0973-4562 Volume 15, Number 2 (2020) pp. 135-143 H Index 38 – Q2	Applied
2	Engineering	Hitesh Panchal, Kishore Kumar Sadasivuni, Mohammad Israr Nishant Thakur	Mechanical	Various techniques to enhance distillate output of tubular solar still: A review	Elsevier-Groundwater for Sustainable Development, ISSN 2352-801X, Volume-9 [October-2019], 100268,[SCI/SJR Mago Journal], [SCOPUS Indexed Journal], H index-08, Caterory-Q2	Basic
3	Engineering	Dinesh Mevada, Hitesh Panchal, Kishor Kumar Sadasivuni, Mohammad Israr, M. Suresh,	Mechanical	Effect of fin configuration on parameters on performance of solar still: A review	Elsevier-Groundwater for Sustainable Development ISSN 2352-801X, Volume-9 [October-2019], 100289, [SCI/SJR Mago Journal], [SCOPUS Indexed Journal], H index-08, Caterory-Q2	Basic

		Swapnil Dharaskar Hemin Thakkar,				
4	Engineering	Ajay Kumar Pagare, Neeraj Kumar, Mohammad Salman Ilahi, Robin Khandelwal, Mohammad Israr	Mechanical	A Case Study on Manufacturing Industry Used Prognostic Tools to Remove the Problems in Shop Floor Challenges Faced in Maintenance Engineering	International Journal of Scientific & Technology Research, ISSN 2277-8616, Volume-8, Issue-12 [December-2019], pp 1-4, Scientific Journal Impact Factor-7.466,[SCOPUS Indexed Journal]	Basic
5	Engineering	Ajay Kumar Pagare, Mohammad Salman Ilahi, Robin Khandelwal, Chandrasekhar Rajora, KanuPriya, Mohammad Israr	Mechanical	TQM in Indian SME'S and Using PILOT Model for Improvement of Production Management to Maximize Production Rate	International Journal of Scientific & Technology Research, ISSN 2277-8616, Volume-8, Issue-12 [December-2019], pp 3769-3773, Scientific Journal Impact Factor-7.466,[SCOPUS Indexed Journal]	Applied
6	Engineering	M. Suresh, S. Suganya, Dr. R. Meenakumari, Mohammad Israr,	Mechanical	Design and Development of Cost-Effective Tapioca Harvester for	International Journal of Scientific & Technology Research, ISSN 2277-8616, Volume-9 Issue-1, [January-2020], pp 4267-4270, Scientific Journal Impact Factor-7.466,[SCOPUS Indexed Journal]	Applied

		S.		Agricultural Application		
7	Engineering	Kamlesh Pansal, Ramani Bharat, Kishor Kumar Sadasivuni, Hitesh Panchal, Muthu Manokar, Ravishankar Sathyamurthy A E Kabeel, M Suresh, Mohammad Israr	Mechanical	Use of solar photovoltaic with active solar still to improve distillate output: A review	Elsevier-Groundwater for Sustainable Development, ISSN 2352-801X, Volume-10 [April-2020], 100341, [SCI/SJR Mago Journal],[SCOPUS Indexed Journal], H index-08, Caterory-Q2	Basic
8	Engineering	Medhat Elkelawy, Hager Alm-Eldin Bastawissi, Khaled Khodary Esmail, Ahmed Mohamed Radwan, Hitesh Panchal, Kishor Kumar Sadasivuni,	Mechanical	Maximization of biodiesel production from sunflower and soybean oils and prediction of diesel engine performance and emission characteristics through response surface methodology	Science Direct-Fuel Journal, ISSN 0016-2361, Volume-266 [April-2020], 117072,[SCI/SJR Mago Journal], H index-181, Caterory-Q1	Applied

		Muthuswamy Suresh, Mohammad Israr				
9	Engineering	Hemin Thakkar, Kishor Kumar Sadasivuni, P.V. Ramanna, Hitesh Panchal, M.Suresh, Medhat Elkelawy, Hager Alm-Eldin Bastawissi, Mohammad Israr	Mechanical	Comparative analysis of the use of flash evaporator and solar still with a solar desalination system	Taylor and Francis Online- International Journal of Ambient Energy, ISSN 0143-0750, [SCI/SJR Mago Journal], H index-21, Caterory-Q2	Basic
10	Engineering	M. Suresh,R. Meenakumari, Hitesh Panchal, El Sayed El Agouz Mohammad Israr	Mechanical	An Enhanced Multiobjective Particle Swarm Optimization algorithm for optimum utilization of Hybrid Renewable Energy Systems	Taylor and Francis Online- International Journal of Ambient Energy, ISSN 0143-0750, [SCI/SJR Mago Journal], H index-21, Caterory-Q2	Applied

11	Engineering	Mahmoud M, Abou Ziyen, Shadid, M.	Mechanical	Effect of Interaction between Oil Additive Elements on the Heat Dissipated from Oil Cooled Engine Parts at various Wall Temperatures	SAE International Journal of Engines Indexed in Web of Science & Scopus	Applied
12	Engineering	Rana Mukherji, Vishal Mathur, Amit Bhati, Manishita Mukherji	Mechanical	Assessment of 50 kWp rooftop solar photovoltaic plant at The ICFAI University, Jaipur: A case study	Environmental Progress & Sustainable Energy (Wiley), online https://doi.org/10.1002/ep.13353 Science Citation Index Expanded	Experimental
13	Engineering	Rana Mukherji, Vishal Mathur	Physics	Watershed Segmentation Image Processing Analysis of Zn _{0.97} Fe _{0.03} O Dilute Magnetic Semiconductor	JOURNAL OF NANO- AND ELECTRONIC PHYSICS. Vol. 11 No 4, 04009(3pp) SCOPUS	Experimental
14	Engineering	A K Sharma, P K Jain, Rishi Vyas,	Science Materials	Enhanced Optical and Dielectric Properties of	JOURNAL OF NANO- AND ELECTRONIC PHYSICS 11 (5), Vol. 11 No 5, 05026(5pp) SCOPUS	Experimental

		Vishal Mathur, V K Jain		PANI/rGO Nanocomposites for Supercapacitor Application		
15	Engineering	A K Sharma, P K Jain, Rishi Vyas, Vishal Mathur, V K Jain	Physics	Effect of rGO Concentration on the Thermal Stability of PANI/rGO Nanocomposites	JOURNAL OF NANO- AND ELECTRONIC PHYSICS 11 (5), Vol. 11 No 5, 05026(5pp) SCOPUS	Experimental
16	Engineering	Rana Mukherji, Vishal Mathur , Manishita Mukherji	Physics	Image Analysis of SEM Micrograph of Co-doped ZnO-Based Oxide Semiconductors	Intelligent Communication, Control and Devices. Advances in Intelligent Systems and Computing, Vol 989, pp321-324, Springer, Singapore https://doi.org/10.1007/978-981-13-8618-3_34	Experimental
17	Engineering	Vishal Mathur, Pramod Kumar Arya, Manasvi Dixit	Physics	Analysis of apparent activation energy of shear viscosity of PVC/ZnO nanocomposite, at its phase transition temperature	International Conference on "Advancements in Nanoelectronics and Communication Technologies" (ICANCT-2020) from January 17 to January 18, 2020 at Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur (India) https://doi.org/10.1016/j.matpr.2020.04.654 Materials Today: Proceedings, Elsevier <u>Volume 30, Part 1</u> , 2020, Pages 84-87 Scopus	Experimental
18	Engineering	Vishal Mathur,	Physics	Estimation of Activation	International Conference on "Innovations in Technology and Management for Achieving	Experimental

		Pramod Kumar Arya, Kananbala Sharma		Energy of Phase Transition of PVC through Thermal Conductivity and Viscosity Analysis	Sustainable Development Goals" on February 7 -8, 2020 at JK Lakshmipat University, Jaipur, INDIA https://doi.org/10.1016/j.matpr.2020.07.553 Materials Today: Proceedings, Elsevier Scopus	
19	IST	Salah Al Khafaji, Laila Samea	Library Information Science	The opportunities and challenges of using electronic information resources in higher education teaching and learning process: A case study	Shanlax International Journal of Arts, Science and Humanities, Apr. 2020, 7(4), 19-29. (UlrichsWeb, Crossref, OCLCWorldCat). v7i4.2283	Basic
20	IST	Babar Shah, Ali Abbas, Gohar Ali, Farkhund Iqbal, Asad Masood Khattak, Omar Al fandi, Ki-Il Kim	Wireless Networks	Guaranteed Lifetime Protocol for IoT based Wireless Sensor Networks with Multiple Constraints	Ad Hoc Networks Volume:104, Page: 102158 1 st July,2020 (Web of Science, Scopus)	Applied
21	IST	Abdu Salam, Qaisar Javaid, Gohar Ali, Fahad	Wireless Networks	Flying sensor network optimization using bee	Intelligent Systems Conference (IntelliSys) 2020, Volume: 1252, Page:331-339 25 th August 2020.	Applied

		Ahmad,Masod Ahmad, Ishtiaq Wahid		intelligence for Internet of Things	(Scopus)	
		Gohar Ali, Fernando Moreira, Omar Alfandi , Babar Shah ,Mohammed Ilyas	Wireless Networks	A New Intra- Cluster Scheduling Scheme for Real-Time Flows in Wireless Sensor Networks	Electronics Volume:9, Issue:4, Page: 683 23 April 2020 (Web of Science, Scopus)	Applied
22	IST	Laila Samea	Library Sciences	Free User Tags in the Social Cataloging websites and their role in the Subject Access: a study of the usage and Awareness Level. (In Arabic) - التوسيمات الحرة للمحتوى في مواقع الفهرسة الاجتماعية ودورها في عمليات الإتاحة الموضوعية : دراسة لمستوى الوعي وطبيعة الاستخدام.	Arab Journal of Libraries and Information, (40), No. 1. (January 2020) مجلة المكتبات والمعلومات العربية، مج 40، ع1.	Basic

23	IST	Gohar Ali	Mobile Learning	Improving M-learners' Performance Through Deep Learning Techniques by Leveraging Features Weights	IEEE Access Volume:8, Page: 131088-131106 7 th July 2020 (Scopus).	Applied
24	IST	Jaap Ham, Sitwat Langrial	Persuasive Technology	Learning to Stop Smoking: Understanding Persuasive Applications' Long-Term Behaviour Change Effectiveness Through User Achievement Motivation.	Ham, J. and Langrial, S.U., 2020, April. In International Conference on Persuasive Technology (pp. 139-149). Springer, Cham. Scopus.	Experimental
25	IST, BA	Rajev MKG, Salah Alkhafaji	Information Science	Journal of Information and Communication Technology (JICT): A Bibliometric Analysis	University of Nebraska – Lincoln-DigitalCommons@University of Nebraska - Lincoln, (MS #7184) Library Philosophy and Practice. (Scopus Indexed)	Basic
26	IST	Sriram, Hariharan	Space Science	Space Debris Mitigation: A Review on	Research & Reviews: Journal of Space Science & Technology. June 2020; 9(1): 1–7p.	Basic

				Available Techniques.	(Indian Science Abstract, Index Copernicus, NISCAIR)	
27	BA, Engineering	V.K. Vyas, Ali A. Al – Jarrah, S.D. Purohit	Pure Mathematics	q -Sumudu transforms pertaining to the product of family of q -polynomials and generalized basic hypergeometric functions	Journal of Applications and Applied Mathematics (Indexed in American Mathematical Society, Mathematical Review, Cabell Publishing, Inc, CPM, EBSCO, ESCI, Emerging Sources Citation Index, Clarivate Analytics products, JIFACTOR, The Journal Impact Factor, SJIFactor – Scientific Journal Impact, Zentralblatt MATH)	Applied
28	BA	Seema Kabra, Harish Nagar, Kottakkaran Sooppy Nisar, V K Vyas	Pure Mathematics	MSM fractional operators on generalized function $G_{\rho, \eta, \gamma} [a, z]$	MATHEMATICS IN ENGINEERING, SCIENCE AND AEROSPACE (Scopus and Elsevier Indexed)	Applied
29	BA	Mohammed Ehab	Islamic Banking	A Comparative Study between Foreign Exchange Forward Contracts and Islamic Foreign Exchange Forward Contracts	International Journal of Current Research Vol. 12, Issue, 04, pp.11074-11076, April 2020 (2019)	Basic

30	BA	T. Kalakumari; Saed Adnan Mustafa; Randolph Von NarbaySalind o	Consumer Behaviour	Emotional Experience of Consumption of Fast Food— A Study of College Students in Sultanate of Oman	Open Journal of Business and Management, Vol. 8, Issue 2, pp.452-466, February 2020 (Web of Science)	Basic
31	BA	Randolf Von NarbaySalind o and Saed Adnan Mustafa	Supply Chain Management	Corporate Sustainability Practices and Supply Chain Management Performance of Bahraini Companies: An Initial Survey	Shanlax International Journal of Management, vol. 7, no. 4, 2020, pp. 1–10. (Indexed in Indian Citation Index, Ulrichsweb, Crossref, OCLC WorldCat)	Basic
32	BA	Saed Adnan, Prasad	Business	A book review on Islam and Business: Cross Cultural and Cross-National Perspectives	South Asian journal of management Vol.26, issue 4 (EBSCO, Pro-Quest USA and ABDC listed journal)	Basic
33	BA	Basil John Thomas	M-Learning	The Direct and Indirect Effects of Personality on Data Breach in Education	International Journal of Computing and digital Systems (Scopus Indexed) Vol. 9(3),2020 May.	Basic

				Through the Task-Related Compulsive Technology use: M-Learning Perspective		
34	BA	Basil John Thomas	Finance	Optimal Blockchain-based Cryptocurrency Selection for Remittance Transaction: An MCDM Approach	Journal of Advanced Research in Dynamical & Control Systems. (Scopus Indexed) Vol 11, Issue 11, 2019 December.	Basic
35	BA	D.C. Stalin	E-Banking	Economic and Financial Implications of E-Banking in India	SHANLAX International Journal of Commerce (Indexed in Indian Citation Index, Ulrichsweb, Crossref, OCLCWorldCat)	Basic
36	BA	Jehan Murugadhas & T. Kalakumari	E-Commerce	E-Trade Security Issues and Best Practices	International Conference on Challenges in Dynamics of Commerce, Management and Entrepreneurship in T20	Basic
37	BA	Basil John Thomas	Organizational Behaviour	Personality traits and work-related compulsive technology use: An organizational perspective	International Journal of Psychosocial Rehabilitation (Scopus Indexed), Vol 24(6),2020 March.	Basic

38	BA	Basil John Thomas	Organizational Behaviour	Work Life Balance of employees: An Organizational Context of Middle east	International Journal of Psychosocial Rehabilitation (Scopus Indexed), Volume24(8), 2020 June.	Basic
39	BA	Basil John Thomas	Banking	Product performance satisfaction level of Mutual fund investors	International Journal of Business and Applied Social Sciences, Vol 5, Issue 12, 2020 January.	Basic
40	BA	Basil John Thomas and Salah Al Khafaji	Business	Business Intelligence Tools and Team Performance of Oil and Gas Industries	Journal of Advanced Research in Dynamical and Control Systems (Scopus Indexed), Vol 12(4), 2020 May.	Basic
41	BA	Basil John Thomas, Saed Adnan and Hamed Saremi	Entrepreneurship	Effectiveness of Entrepreneurial ecosystem in Oman	Test Engineering and Management (Scopus Indexed), Vol 81, 4266, 2019 December.	Basic

Publications in National, International Conferences and Journals

	Basic	Experimental	Applied	Total
Engineering	5	5	8	18
Information Systems & Technology	4	2	2	8
Business Administration	14	1	0	15
Total	23	8	10	41

Yearly Publications

Publications	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	Total
International Journals	8	12	7	38	36	36	137
National Journals	0	0	0	0	0	0	0
Books/Chapters	3	2	1	5	2	0	13
International/National Conferences	5	7	-	9	14	5	40
Patents	-	-	-	2	8	-	10
Total	16	21	8	54	60	41	190